

NEUSE RIVER BASIN

0209171225 DRAINAGE DITCH (MS1-D1) TO MIDDLE SWAMP NEAR MARLBORO, NC

LOCATION.--Lat 35°33'42.7", long 77°35'47.4", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.3 mi east of U.S. Highway 258 and 1.3 mi south of Marlboro.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, (PER-CENT SATURATION) (00301)	PH WATER FIELD (STANDARD UNITS) (00400)	SPECIFIC CONDUCTANCE (US/CM) (00095)	TEMPERATURE WATER (DEG C) (00010)	HARDNESS NONCARB LAB AS CAC03 (MG/L) (00905)	HARDNESS TOTAL (MG/L) AS CAC03 (00900)	CALCIUM DIS-SOLVED (MG/L) AS CA (00915)	MAGNESIUM DIS-SOLVED (MG/L) AS MG (00925)	POTASSIUM DIS-SOLVED (MG/L) AS K (00935)	SODIUM DIS-SOLVED (MG/L) AS NA (00930)
SEP 2000													
27...	1110	211	4.5	49	5.0	142	19.5	25	33	8.10	3.10	4.90	7.8
DEC 11...	1000	E.54	7.0	57	5.7	236	6.8	29	37	9.50	3.30	3.90	26.0
FEB 2001													
05...	1455	E3.7	5.3	47	6.2	148	9.8	--	13	3.40	1.10	3.50	22.0
26...	0950	10.9	4.8	45	5.9	166	12.5	10	28	7.70	2.10	2.60	18.0
MAR 05...	1000	50.7	7.5	67	5.8	160	9.9	13	29	7.80	2.20	2.60	17.0
APR 02...	1000	152	7.4	65	5.6	122	10.0	10	22	6.00	1.80	2.40	12.0
JUN 11...	1910	E4.3	3.4	42	6.1	112	25.7	12	28	7.10	2.60	2.80	7.9
14...	1120	317	4.3	50	5.6	43	23.3	1	11	2.90	.800	2.50	2.6
JUL 09...	1730	7.2	4.7	60	6.0	134	27.0	19	31	7.00	3.20	3.20	10.0
AUG 14...	1630	56.6	4.5	56	5.6	72	26.3	7	19	5.30	1.30	2.90	4.7

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L) AS CL (00940)	SULFATE DIS-SOLVED (MG/L) AS SO4 (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L) AS N (00608)	NITRO-GEN, AMMONIA + ORGANIC DIS. (MG/L) AS N (00623)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (MG/L) AS N (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L) AS N (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L) AS N (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L) AS N (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L) AS N (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L) AS N (00605)	NITRO-GEN, TOTAL (MG/L) AS N (00600)
SEP 2000													
27...	8	17.0	9.7	76	.190	.51	.72	4.68	4.70	.020	.32	.53	5.4
DEC 11...	9	51.0	7.9	126	<.010	.25	.57	--	4.30	<.010	--	--	4.9
FEB 2001													
05...	27	21.0	5.7	75	.020	.65	1.2	--	.480	<.010	.63	1.2	1.7
26...	18	28.0	8.4	86	.116	.64	.61	1.75	1.80	.050	.52	.49	2.4
MAR 05...	16	23.0	9.1	86	.325	.72	.94	3.17	3.20	.030	.39	.61	4.1
APR 02...	12	17.0	7.4	66	.078	.50	.65	--	2.70	<.010	.42	.57	3.4
JUN 11...	16	18.0	5.3	55	.058	.72	.72	--	.340	<.010	.66	.66	1.1
14...	9	4.0	2.3	25	.076	.60	1.1	--	.820	<.010	.52	1.0	1.9
JUL 09...	12	21.0	6.0	68	.028	.29	.34	--	2.40	<.010	.26	.31	2.7
AUG 14...	12	6.2	7.2	40	.040	.60	.80	--	.990	<.010	.56	.76	1.8

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WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
SEP 2000						
27...	<.020	<.010	.070	3.6	90	27.0
DEC						
11...	<.020	.010	<.020	2.4	20	15.0
FEB 2001						
05...	.050	.040	.160	9.4	270	8.3
26...	<.020	<.010	.020	3.0	40	4.3
MAR						
05...	<.020	<.010	.060	6.2	50	12.0
APR						
02...	<.020	<.010	.040	6.4	90	19.0
JUN						
11...	.030	.020	.050	8.5	260	20.0
14...	.060	.050	.150	8.6	200	16.0
JUL						
09...	<.020	<.010	<.020	4.0	40	17.0
AUG						
14...	.030	.030	.080	8.9	220	14.0